

**We claim:**

1. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, comprising:
  - dividing the available wireless bandwidth into a high band and a low band;
  - sending a first signal in a first wireless network across the high band; and
  - sending a second signal in a second wireless network across the low band.
2. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the available bandwidth is between 1.5 GHz and 10 GHz.
3. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the low band has a center frequency between 3.6 GHz and 4.6 GHz.
4. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the low band has a center frequency of about 4.104 GHz.
5. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the low band is between 1 GHz and 2 GHz.

6. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the low band is about 1.368 GHz.

7. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the high band has a center frequency between 7.7 GHz and 8.7 GHz.

8. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the high band has a center frequency of about 8.208 GHz.

9. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the high band is between 2 GHz and 4 GHz.

10. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the 3 dB bandwidth of the high band is about 2.736 GHz.

11. A method of sending ultrawide bandwidth signals from first and second wireless networks across an available wireless bandwidth, as recited in claim 1, wherein the first and second wireless networks are preferably ultrawide bandwidth networks.